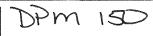
# MATERIAL SAFETY DATA SHEET



Gaseous Argon

April 1986



LIQUID CARBONIC INDUSTRIAL/MEDICAL CORPORATION

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SECTION I--PRODUCT IDENTIFICATION

CHEMICAL NAME:

Argon

COMMON NAME AND SYNONYMS: Gaseous Argon, Argon

CHEMICAL FAMILY:

Rare Gas

FORMULA: Ar

SECTION II--HAZARDOUS INGREDIENTS

MATERIAL

VOLUME %

CAS NO.

1985-6 ACGIH TLV UNITS

Argon

99.9

7440-37-1

Simple Asphyxiant

SECTION III--PHYSICAL DATA

BOILING POINT (°F.)

-302.6°F

SPECIFIC GRAVITY (H<sub>2</sub>O=1) (@-302.6°F) 1.39

VAPOR PRESSURE (mmHq.) (@-302.6°F) 760 % VOLATILE BY VOLUME

VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER

1.38 Slight EVAPORATION RATE

APPEARANCE AND ODOR

(BUTYL ACETATE=1)

N/A

Colorless, odorless gas

SECTION IV--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) N/A

FLAMMABLE LIMITS

EXTINGUISHING MEDIA:

Non-Flammable Inert Gas

SPECIAL FIRE FIGHTING PROCEDURES:

Neither burns nor supports combustion

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fire exposed cylinders could rupture violently if cylinder valve safety devices

should fail to relieve pressure.

SECTION V-HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:

Argon is a simple asphyxiant, accordingly should have

an 18% by volume minimum 0, content in air at

1 atmosphere pressure.

EFFECTS OF OVEREXPOSURE: Dizziness, unconsiousness, death

EMERGENCY AND FIRST AID PROCEDURES: If inhaled remove to fresh air in safe ventilated area. Obtain prompt medical attention. Administer air or oxygen, give cardiopulmonary resuscitation.

ROUTE(S) OF ENTRY: INHALATION? Yes

SKIN?

INGESTION?

CARCINOGENICITY:

NTP? No

IARC MONOGRAPHS? No

OSHA? No

### SECTION VI-REACTIVITY DATA

STABILITY: UNSTABLE () STABLE (X)

CONDITIONS TO AVOID: N/A

INCOMPATABILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: MAY OCCUR () WON'T OCCUR (X)

CONDITIONS TO AVOID: N/A

## SECTION VII--SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Maintain adequate ventilation to avoid deficiency (less than 18%) of oxygen in breathing atmosphere. Emergency employees should wear self contained or positive pressure air breathing masks. Evacuate all personnel from the affected area. Argon can cause rapid suffocation.

WASTE DISPOSAL METHOD: None required - Slowly diffuse into atmosphere in ventilated remote area.

# SECTION VIII--SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use positive pressure air supplied or self-contained masks.

VENTILATION: LOCAL EXHAUST

(X) To prevent O<sub>2</sub> concentration in air from being reduced to below 18% by volume.

MECHANICAL (GENERAL) ()

PROTECTIVE GLOVES: Cotton or leather. EYE PROTECTION: Safety goggles or glasses

OTHER PROTECTIVE EQUIPMENT: Safety shoes

Low oxygen (less than 18%) alarm where necessary

## SECTION IX-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Protect containers from physical damage. Use only DOT or ASME coded storage containers. Follow normal compressed gas storage practices. Store in cold, dry, and well ventilated areas. High pressure gas can cause rapid suffocation.

#### OTHER PRECAUTIONS:

Refer to CGA Bulletin SB-2 and pamphlets P-9 and P-14.

SB-2 -- "Oxygen Deficient Atmosphere"

P-9 -- "The Inert Gases Argon, Nitrogen, and Helium"

P-14 -- "Accident Prevention in Oxygen Rich and

Oxygen Deficient Atmospheres"

Use a check valve or trap in the argon cylinder discharge line to prevent hazardous backflow. Cylinders must not be recharged except by or with consent of Liquid Carbonic.

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